

Facility Contact and Location

Tilmann Brotz, Ph.D. Facility Head
Phone: (301) 435-6402; email: Tilmann_Brotz@nih.gov
Building 10, Room 4A05

Information resources:

Facility website: <http://microdim.nci.nih.gov>
NCI microscopy core facilities: <http://microscopy.nci.nih.gov>

Equipment

- **Zeiss LSM 410 laser scanning microscope:** 3D imaging and optical sectioning.
- **Zeiss Axiovert 100 inverted fluorescence microscope w/color CCD camera:** low-light fluorescence and live-cell imaging. Deconvolution.
- **Zeiss Axioplan 2 upright fluorescence microscope w/ color CCD camera:** high resolution fluorescence and brightfield imaging in fixed specimen. Deconvolution.
- **Zeiss Standard fluorescence:** surveying of samples.
- **Biopetechs heated chamber:** live-cell imaging, time-lapse studies.
- **Wild M9.5 Stereoscope:** sample preparation, large specimen.
- **SGI 540 visual workstation:** 2D and 3D image processing.
- **Codonics Printer:** photoquality thermosublimation printer.
- **Flatbed scanner and CD-R writer.**

Facility Access

The facility is primarily intended for use by members of the Experimental Immunology Branch (EIB). Non-EIB users are welcome based on availability. After hour access to the facility has to be approved by facility staff.

Training requirements

To use any equipment (microscopes, computers, scanners, printers etc.) you need to take a training class or prove that you already are familiar with the particular piece of equipment and are able to operate it. Unless you received explicit permission to use MicroDIm equipment, you are not authorized to operate it. Please follow the steps outlined below to get appropriate training and facility access:

1. Download application form from website. Fill out necessary fields and email form back to Tilmann_Brotz@nih.gov
2. Schedule an initial meeting with the facility staff to evaluate your project and discuss the appropriate equipment.
3. Schedule an initial training session on equipment (e.g. confocal microscope).
4. Follow up training sessions will be conducted until user is comfortable with equipment. In general, users are expected to operate equipment themselves.

Scheduling

Sign up for MicroDIm microscopes and image processing workstations is mandatory. Sign up for MicroDIm equipment is exclusively online and on a first-come first-serve basis. Please sign up with your **name** and **phone number**, so that other users can easily coordinate with you if lamps or lasers should be left on or switched off. If you plan to use a certain piece of equipment for more than 2 half days per week please contact Tilmann Brotz (5-6402 or Tilmann_Brotz@nih.gov). The online sign up can be accessed through your MS Outlook or MS Schedule+ client. The sign up calendars are located in the Public Folders:

`\Public Folders\All Public Folders\NCI\EIB\MicroDIm\`